

Applic. No. 10/613,198
Art Unit: 1762

AMENDMENTS TO THE CLAIMS:

Claim 1. (Currently Amended) A continuous, in-line process for making an ink-jet recording medium, comprising the steps of:

- a) applying a radiation-curable coating to a surface of a substrate material,
- b) irradiating the radiation-curable coating ~~so that the~~ to form a freshly irradiated coating ~~that~~ undergoes a curing process, and
- c) applying an ink-receptive coating over the freshly irradiated coating to form an ink-jet recording medium having a water vapor transmission rate of no greater than 12 grams/100 square inches/24 hours and a surface gloss of at least 70.

Claim 2. (Original) The process of claim 1, wherein the radiation-curable coating is irradiated with ultraviolet light.

Claim 3. (Original) The process of claim 1, wherein the radiation-curable coating is irradiated with electron beam radiation.

Claim 4. (Original) The process of claim 1, further comprising the step of treating the irradiated coating with a corona discharge prior to applying the ink-receptive coating.

Claim 5. (Original) The process of claim 1, further comprising the step of applying a coating comprising adhesion promoters over the irradiated coating prior to applying the ink-receptive coating.

Claim 6. (Original) The process of claim 1, wherein the continuous, in-line process runs at a speed of at least about 60 feet per minute.

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Claim 7. (Original) The process of claim 1, wherein the radiation-curable coating comprises a radiation-curable oligomer and photoinitiator.

Claim 8. (Original) The process of claim 1, wherein the ink-receptive coating comprises at least about 40% by weight water-soluble binder resin based on dry weight of the ink-receptive layer.

Claim 9. (Original) The process of claim 8, wherein the water-soluble binder resin is selected from the group consisting of polyvinyl alcohols; poly(vinyl pyrrolidone); poly(2-ethyl-2-oxazoline); methylcellulose; poly(ethylene oxide); and copolymers and mixtures thereof.

Claim 10. (Original) The process of claim 1, wherein the weight of the irradiated coating is in the range of about 1 to about 40 grams/square meter.

Claim 11. (Original) The process of claim 1, wherein the weight of the ink-receptive coating is in the range of about 5 to about 50 grams/square meter.

Claim 12. (Currently Amended) A continuous, in-line process for making an ink-jet recording medium, comprising the steps of:

- a) applying a radiation-curable coating to a surface of a substrate material,
- b) irradiating the radiation-curable coating ~~so that the~~ to form a freshly irradiated coating that undergoes a curing process, and
- c) applying an ink-receptive coating over the freshly irradiated coating to form an ink-jet recording medium having a water vapor transmission rate of no greater than 12 grams/100 square inches/24 hours and a surface gloss in the range of 20 to 70.

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Claim 13. (Currently Amended) A continuous, in-line process for making an ink-jet recording medium, comprising the steps of:

- a) applying a radiation-curable coating to a surface of a substrate material,
- b) irradiating the radiation-curable coating ~~so that the~~ to form a freshly irradiated coating that undergoes a curing process, and
- c) applying an ink-receptive coating over the freshly irradiated coating to form an ink-jet recording medium having a water vapor transmission rate of no greater than 12 grams/100 square inches/24 hours and a surface gloss less than 20.

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